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## **Copyrights**

AND Technology Ltd., Oxford 1997

AND Mapping B.V., Rotterdam 1997 (digital mapping data)

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\* with the exception of data needed to run the application and calculate routes

## Introduction

AND Route '97 is a route planner for the road user, providing you with the means to plan road journeys between thousands of locations and display them in a clear map. The program also offers a number of additional features which further simplifies use of the application: AND Route '97 allows you, for example, to select the road network of your choice and to include intermediate locations within a journey.

Within seconds of your selection of a departure and arrival point , AND Route '97 provides the optimal route, as well as providing a maximum of two alternative routes. In addition to the departure and arrival point, you can select one or more locations along the route which you want to visit on your way. The program will then calculate the optimal route (with possible alternative routes) from the departure to the arrival point via these additional locations.

The route information consists of the names, or numbers, of the roads, the crossings and exit ramps along the route with their numbers, the length of the route in miles, the distance between various places and exit ramps along the route, and the approximate duration of the journey. AND Route '97 also allows you to determine the amount of detail in which this information is presented.

The optimum route is graphically displayed on a map, with any alternative routes also highlighted . The map offers a variety of interesting extra features: in addition to providing you with insight into the geographical course of the journey, arrival and departure points can be selected via the map, as well as other locations in the nearby vicinity . The application also allows you to zoom in on the map in order to obtain more detail, or to zoom out to obtain a better overview.

Additional information about AND Route '97, where applicable, can be found in the 'readme' file on the CD-ROM. .

This manual is provided for use with all AND Route '97 road networks.

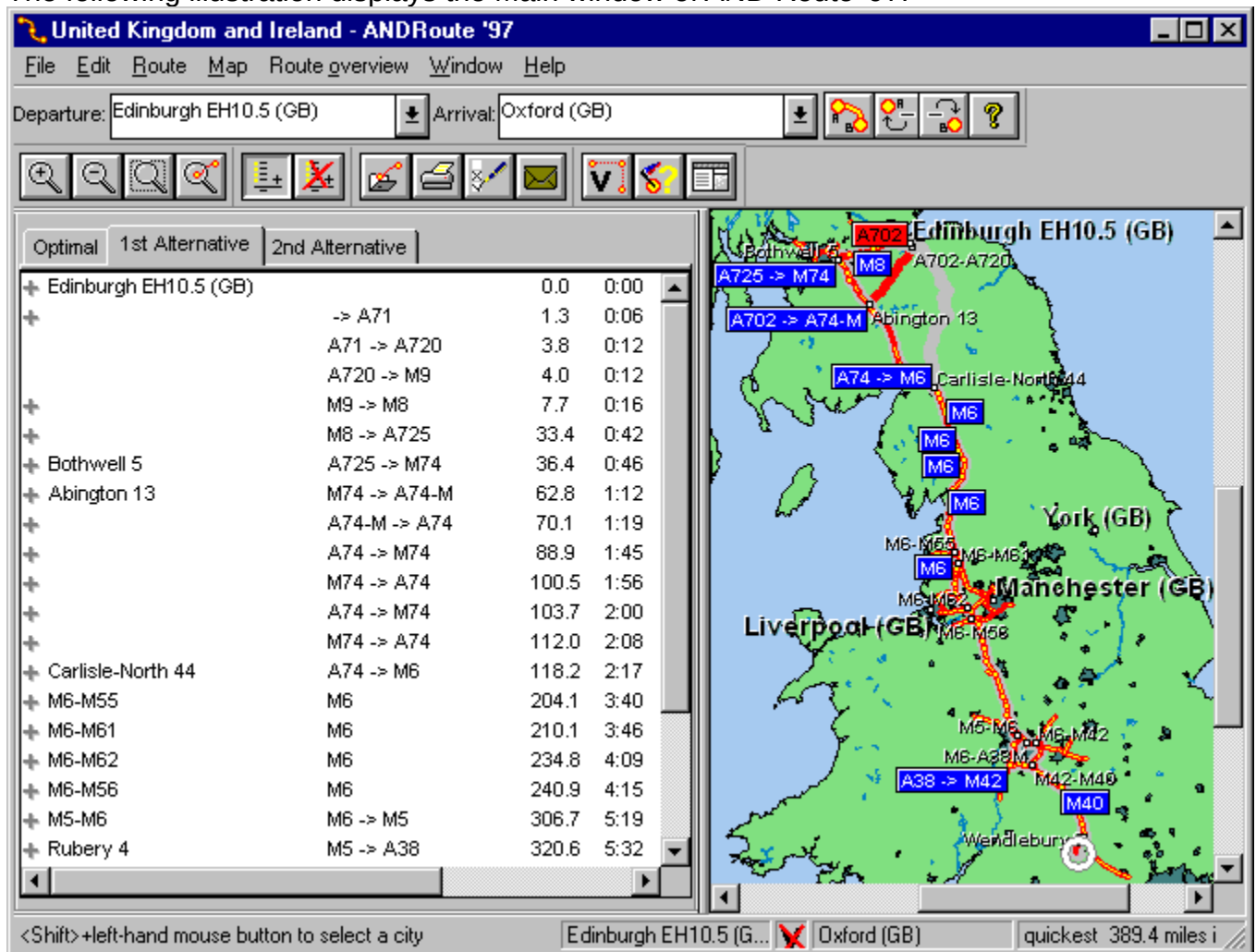
## Conventions

AND Route '97 commands can be executed using Alt-<letter> key combinations. The letter to be used to carry out each of the commands is always underlined in the application. Alt-F, for example, takes you to the File menu of the Menu bar. A number of commands can also be carried out using quick keys, such as opening files (Ctrl+O), or printing information (Ctrl+P). The quick keys are displayed in the various menus after the corresponding menu commands.

System keys such as the Tab key and the Enter key are displayed between angular brackets in this manual. Whenever you see either <Tab> or <Enter> in the instructions in this manual, press the appropriate key to carry out the command in question. Text which must be typed in is displayed in bold print.

## The Main window of AND Route '97

The following illustration displays the Main window of AND Route '97:



The **Title bar** contains the name of the application, 'AND Route '97', and the road network which is currently active.

The **Menu bar** contains various menus containing all of the AND Route commands and options. Descriptions of the menu commands can be displayed on the Status line (see Status line) by placing the mouse cursor on the command desired. A complete overview of AND Route '97 functions is provided in the section [The Menu bar](#).

The **Input fields** for the departure and arrival points can be found under the Menu bar, along with the **Work bars** containing most Menu bar functions. A single click activates the underlying functions. Work bar buttons which cannot be selected are displayed in grey.

A small pop-up window containing explanatory information will also appear whenever you place the mouse cursor on any Work bar button. The Work bar buttons are

explained in the description of the corresponding functions (see [The Menu bar](#)). Dependent on the AND Route road network purchased, there are up to five Work bars: The Route work bar, the Overview work bar, the Map work bar, the Files work bar, and the Auxiliary work bar.


In addition to the Input fields and the five Work bars, the **File library**, containing the road networks you have purchased, is also found under the Menu bar. Each file is identified by its own clearly recognisable icon. If you are using the UK version of AND Route '97 for the first time, start the application with the UK road network. Start the European version of AND Route '97 for the first time with the European road network. The next time you open AND Route '97, the most recently used road network will appear automatically.

Most of the default Main window is given to the **Route overview** displaying journey instructions. The remainder of the Main window displays the **Map** of your selected road network.

The routes in the **Route overview** each have their own Tab sheet. The standard display shows the optimal route. The alternative routes can be displayed by clicking the appropriate Tab sheet. You determine the amount of detail displayed in the information in the Route overview yourself, by selecting a specific detail level (see [The route-overview](#) for additional information).

The map will display your chosen departure and arrival points and the calculated routes. The optimum route will be in heavy colour with any alternative routes in shaded.

The **Status line**, which actually consists of two components, is displayed at the very bottom of the Main window.

The left-hand side of the Status line displays an explanation of the menu command or button on which the cursor is placed. The right-hand side of the Status line displays the selected departure and arrival points, the total distance between those points, and the duration of the selected route. This information changes as alternative routes are selected or new routes are calculated. Between the departure and arrival point you will find the button . By clicking this button, a special dialogue window will appear in which you can select and add via's along the route. This dialogue window can also be opened by selecting the command 'Selecting via's along the route' in the Route menu.

The layout of the Main window described above is the standard layout. The appearance of the Main window can be changed to meet your individual requirements. The Work bars and the File library, for example, which are found under the Menu bar in the standard window layout, can both be placed directly in the Main window. The Route overview can also be moved, or even adjusted in size. Note: moving elements in the Main window is practical only if your monitor is larger than 14 inches. If your monitor is 14 inches or smaller, you will probably want to streamline the Main window by concealing certain elements (see [Changing the layout of the Main window](#) for additional information).

## Using AND Route '97

Many functions within the application can be executed in a variety of ways: via the Menu bar, via an icon on one of the Work bars and via the right-hand mouse button. The right-hand mouse button can be used only in the Map or in the Route overview. Clicking this button will cause a number of options, relevant to your current location within the application, to appear.

The following sections contain descriptions of all of the options offered by the various functions, and are explained in chronological order. Additional information is available via the help files, which can be activated simply by pressing F1.

Selecting a file

Selecting departure and arrival points

Selecting from a list containing specific types of locations

Selecting from a list of all types of locations

Selecting Via's along the route

Calculating routes

The Route overview

The Map

Example

## Selecting a file

When using AND Route '97 the first time, it will open with the individual road network that you have just purchased and installed. When you have more than one AND Route road network installed , any subsequent sessions will, for your convenience, open with the road network that was previously used.

Should you have two, or more, AND Route products, selection of a different road network can be achieved in a variety of ways:


(1) *Via the File menu:*

a) Select 'Open' in the File menu. A dialogue window in which the appropriate file can be selected will appear. The file selected will be opened immediately and the appropriate icon will be placed in the File library.

or

b) Select the desired file from the File list in the File menu.

(2) *Via the File library:* Click the icon of the file desired in the File library.

(3) *Via the Open file icon* . Clicking this icon will cause the Open file dialogue window to appear. Select the desired file in this window. Click 'OK' to open the file and have the icon placed in the File library.

(4) *Via the Windows File Manager:* Go to the File Manager, select the desired file and drag it to the Main window of AND Route '97. Do this as follows: place the mouse cursor on the desired file, depress and hold the left-hand mouse button , and release when you reach the Main window of AND Route '97. The dragged file will be opened immediately, and the associated icon will be placed in the File library.

Note: Only one road network at a time can be activated in AND Route '97.



## Selecting departure and arrival points

Prior to setting a departure and arrival point you may, depending on the AND Route network purchased, have the option to limit the number of locations to specific choices such as railway stations, airports or border crossings.

See the following topics for additional information:


[Selecting from a list containing specific types of locations](#)

[Selecting from a list of all types of locations](#)

[Selecting Ferry Routes](#)

## Selecting from a list containing specific types of locations

Use the Find locations dialogue window to limit the locations displayed for selection to a specific type of location. This window can be activated as follows:

- select 'Find locations...' in the menu under the right-hand mouse button (while the cursor is over the Map or the Route overview)
- click the Find locations icon 
- select 'Find locations...' in the Edit menu.

The Find locations dialogue window will appear. Select from the Restriction lists on the right-hand side. These lists will normally display the words 'No restrictions'.

If, for example, you wish to select a railway station as departure location, and you wish to display the entire list of possible locations from which to select an arrival point, you would:

(1) Open the top Restriction list by clicking the arrow. You may then be offered a choice of sub groups including:

- no restrictions
- railway stations
- border crossings
- airports

(2) Click 'railway stations'.

Open the list of departure locations. Only locations which are railway stations are displayed.

(3) Select the station desired.

(4) Type your arrival point directly into the Input field or select it from the list of locations, since the restriction is still correctly set to 'no restrictions'.

(5) Click 'Calculate' to have the route calculated. Click 'Close' if you wish to quit the window without having the route calculated.

## Selecting from a list of all types of locations

Selecting a departure and arrival point from the 'all' locations listing can be carried out in a variety of ways. First of all, you can use the Input fields which are located under the Menu bar. (Even if you do choose to use another selection method, your departure and arrival points will be displayed in these Input fields). The methods differ only in that you may place the locations in the Input fields directly or indirectly. The various methods are described below.

### The Input fields

Type a location in the Input field and confirm your selection with **<Enter>** or select the location from the drop-down list. The list can be opened by clicking the arrow next to the Input field or by pressing **<Down arrow>**. These two methods can also be combined, which is particularly useful if you are not sure of the exact spelling of a given location. Type the first few letters of the location name in the Input field and then open the list. All of the locations beginning with the letters you have entered will be displayed.

Besides entering city and town names as locations, you may also be able to enter railway stations, border crossings, etc. Before entering something other than a city as the location desired, check the notation conventions for the type of location you wish to enter. UK railway station names always begin with 'BR'. A railway station in London, for example, would be listed as 'BR London Kings Cross'.

### Other location input methods

#### *Selecting locations*

Locations can be selected in the Map using the following method:

- Position the mouse cursor at the approximate geographic position of the desired location on the Map
- Press **<Shift>** and click the left-hand mouse. The locations in the nearby vicinity of the mouse cursor will now appear in a list. Note: this may take some time on relatively slow computers and this method works only if your cursor is positioned above land.
- Select a location from the list.

You can also select a location from the Route overview. Place the mouse cursor on the location in the Route overview and click, or use the cursor keys to move to the desired location.

#### *Transforming the selected location into a departure or arrival point*

Once you have selected a location, the location must be transformed into a departure point or arrival point appearing in one of the Input fields.

This can be accomplished in a number of ways:

- Select '<selected location> as departure' or '<selected location> as arrival' in the

menu under the right-hand mouse button (while the cursor is over the map or Route overview)

or

- click one of the corresponding icons ( or



or


- select the command 'selected location as departure' or 'selected location as arrival' in the Route menu.

The chosen location will now appear in one of the Input fields.

## Selecting Ferry Routes

For your convenience, ANDRoute '97 lists most major ferry crossings which allow you to create a customised route, via a preferred ferry, if you wish.

Listed ferry crossings can be selected and entered into an overall journey as Via's. If, for example, you wish to travel from Oxford, United Kingdom, to Lisbon, Portugal -via the Plymouth-Santander Ferry- you would proceed as follows:

1. Enter Oxford (GB) as Departure and Lisbon (P) as Arrival in the main location input fields.
2. Open the 'Select Via's along the route' dialogue window, for example by clicking 
1. Type 'Ferry Plymouth' and select 'Plymouth-Santander' from the drop-down list of locations.
1. Press <Insert> to place the selection into the current route dialogue between Oxford (GB) and Lisbon (P).
1. Press 'Calculate' to produce an optimum route plan to your destination via this ferry route.
1. Press 'Close' to exit the dialogue window.

Hint: Ferry operations can fluctuate from day to day and are, in some cases, seasonal services. To assist trip scheduling, we recommend that you check with your travel agent, or ferry company, to ascertain which services are operating and the typical crossing duration, including approximate boarding and debarking times, on those dates you are planning to travel.

## Selecting Via's along the route

You may want to visit additional locations on your journey by selecting a departure and arrival point, and one or more locations along the route. AND Route `97 will calculate the optimal route (with possible alternatives) and include these additional locations in your journey plan. You can open the Selecting via's along the route dialogue window in a number of ways:

- Choose 'Via's along the route add/delete' in the menu under the right mouse button (while the cursor is over the Map or the Route overview)

or

- click on 

or

- click on 

or

- choose the command 'Select Via's along the route' in the Route menu.

The Via's-along-the-route-dialogue window will appear now. Open the list of locations by clicking the arrow. Select the desired intermediate location from the list and click 'Add' to include this location in the present route. Repeat this for every intermediate location you want to visit on your way. A location can always be deleted by highlighting it and clicking 'Delete'.

Select 'Calculate' to continue or 'Close' if you want to leave the dialogue.


New Via's will always appear below whatever current route location entry is highlighted. To enter Via's in a particular sequence, simply change the highlighted entry.

## Calculating routes

A variety of route calculation prompts are available:

If you used the Find locations dialogue window to select the desired locations, you can proceed by clicking 'Calculate'.

If you used another method to select the desired locations, and those locations are now displayed in the Input fields , you can calculate the route as follows:

- Select 'Calculate route' in the menu under the right-hand mouse button (while the cursor is over the Map or the Route overview)
- or
- click the corresponding icon 
- or
- select the command 'Calculate route' in the Route menu.

## The Route overview

Once a route has been calculated, directions for the optimal route will appear in the Route overview. The Map will display all proposed routes including any possible alternatives.

The Route overview consists of four columns. The first column shows the departure location and points which you will pass during the course of your journey. The second column displays the road numbers. The third column the distances between each of the points. The approximate duration of the journey is displayed in the fourth column. The total distance and the expected duration are permanently displayed on the Status line next to the departure and arrival points.

Dependent on the actual journey, the Route overview allows you to view any alternative routes that may be available (a maximum of two) by clicking on additional Tab sheets. These routes would be the best alternatives to the optimal route. You can navigate through the Route overview with the help of either the cursor keys or the Scroll bar.

AND Route '97 allows you, via four route information presentation levels, to determine the amount of detail in which the route information is presented: level 1 provides you with the least detail, while level 4 provides you with the most detail. In addition, AND Route '97 enables you not only to have the entire route presented in varying levels of detail, but also to request additional detail, or limit the amount of detail provided, for a specific section of the route, at whatever level of detail you desire. Each of the lines in the Route overview represents a 'section' of the route. There are three ways in which to select the level of detail for the presentation of route information - and to request additional detail, or less detail, for a specific section of the route:



- Place the mouse cursor on the Route overview display and select 'Fold section' or 'Unfold section' desired in the menu under the right-hand mouse button

or

- Highlight any + or - in the Route overview and double click the left-hand mouse button

or

- Select the menu command desired in the Route overview menu.

In addition to allowing you to specify the level of detail, AND Route '97 also allows you to specify whether you want cumulative or non-cumulative route information. This information is normally displayed cumulatively, but this can be changed by clicking the Non-cumulative icon  in the Route overview work bar, or by selecting 'Non-cumulative description' in the Route overview menu. Click the Cumulative icon  or select 'Cumulative description' if you wish to re-display the information cumulatively.



Alternatively, you may use the menu under the right-hand mouse button, while the cursor is over the Route overview, and select the desired option.

## The Map

The Map graphically displays the calculated route from the departure point to the arrival point. In addition to being able to select arrival and departure locations directly from the map, you may also zoom in and zoom out at various levels, and redisplay the route or the entire Map with a single command (useful if you have zoomed in to a very high level of detail).

You can also highlight an area to be enlarged by simply 'dragging' the cursor diagonally over the map while depressing and holding the LH mouse button. The map area within the box created will quickly be redrawn to larger scale.


There are also three other ways to zoom in for greater detail on the Map, or to zoom out for a better overview:

- Select the desired zoom command in the menu under the right-hand mouse button (with the cursor over the Map

or

- Select the desired zoom command in the Map menu

or

- Use the buttons on the Map work bar: ,



## Example


The way in which AND Route '97 works is best explained based on an example.

Our example is based on use of the AND Route '97 UK road network, which allows us to enter postal areas as locations. Postal areas can consist of four or five numbers, e.g. EH10.5 Edinburgh. Let us assume that you wish to drive from Edinburgh, postal area EH10.5 , to Oxford.

These locations can be entered in a variety of different ways. We will use the Input fields to select the departure and arrival points, and the Route work bar to have the route calculated.

Do the following:

Go to the Input field for the departure location by clicking with the mouse or by pressing <Tab> until you reach the desired Input field. Type EH10.5 Edinburgh in this Input field. Confirm your entry by pressing <Enter>. The cursor will now automatically jump to the Input field for the arrival point. Type Oxford in this field and press <Enter>. You might also enter both locations by making use of the drop-down list of locations (e.g. type 'Edinburgh' and then select 'EH10.5').

Go to the Route work bar and click the Calculate route icon . The application calculates the route information. The description of the optimal route appears in the Route overview and the corresponding route appears on the Map. In addition, two alternative routes have been calculated, which are displayed if you click the Tab sheets '1st Alternative' and '2nd Alternative'.

Both the optimal and the alternative route descriptions contain the following information: The departure location, 'EH10.5 Edinburgh' appears at the top of the description, while you can see the arriving location, Oxford, at the end of the description. The crossings, exit ramps, etc. which you will come across on your journey between 'EH10.5 Edinburgh' and 'Oxford' are displayed, followed by the road designations of your route. The application also provides you with information on the length of each section of the route and the approximate duration of the journey over each of those sections.

The Status line at the very bottom of the screen displays the departure and arrival points, the total length of the route in miles and the approximate duration of the entire journey.

## **Special features of AND Route '97**

AND Route '97 offers several other special features:

Changing the layout of the Main window

Cutting, copying and pasting

Printing

Mail

Preferences

## Changing the layout of the Main window

The layout of the Main window can be changed very easily to meet your individual needs. You can determine, for example, whether or not you want the following elements to appear on your screen as part of the Main window:

Route work bar  
Route overview  
File library  
Map work bar  
Overview work bar  
Legends  
Files work bar  
Auxiliary work bar

One or more of the elements mentioned above can be revealed, or concealed, in the Main window by clicking the appropriate element or elements in the Window menu.

You can also move these elements within the Main window. Normally, these elements are located at 'fixed' points in the Main window, but they can also be 'floating'. Note: the Map is the only element of the Main window which *cannot* be moved and which *cannot* be concealed.

Elements can be moved as follows:

- Place the mouse cursor on the element you wish to move
- Press the left-hand mouse button. The edge of the element you wish to move will become vague.
- Hold the mouse button in and move it in the direction you wish to move the element. As you move the mouse, the element will display a vague, thick edge, which means that the element is disconnected from the Main window.
- Release the mouse button when you have reached the desired position in the screen. The element will be fixed into its new position in the Main window. If you have moved the element in such a way that part of it falls outside of the screen, the application will automatically move it so that the entire element is displayed.

Floating elements tend to click themselves back onto the Main window rather quickly. This can be prevented by disconnecting the element from the Main window, as described above, and then pressing <Ctrl>. This will cause the element to become a separate window instead of being connected to the main window.

The Split bar between the Map and the Route overview can be moved to create more space for either one.

You may return to the standard layout at any time simply by clicking 'Standard window layout' in the Window menu, or by clicking the corresponding button on the Route work bar.


Your new Main window layout is automatically saved when you close AND Route '97.

## **Cutting, copying and pasting**

The availability of the various options in the Edit menu is dependent on the element of the application which you are using at that time: If, for example, you are in the Map or in the Route overview, only the 'Copy' command will be available. This command can then be used to copy the Map or the route information displayed to the Clipboard. The Map or the route information can also be copied directly from the Map or the Route overview by selecting 'Copy route description/map' in the menu under the right-hand mouse button.

If you are in an Input field, all edit commands can be used: the command 'Cut selected text' removes any text from the Input field, 'Copy Map/Route description/Selected text' copies the Map, Route description or selected text to the Clipboard, and the command 'Paste text' places the contents of the Clipboard in the Input field. In the last case, whether or not the pasted text can be used in AND Route '97 depends on whether the pasted location actually appears in the list of locations.

## Printing


In addition to allowing you to determine the level of detail of the information printed, AND Route '97 also allows you to determine which information you want printed (see [The Route overview](#) for additional information). To determine the information to be printed select the command 'Print' in the File menu, or click the Print icon . A dialogue window with two Tab sheets will then appear, one for the items which you wish to print, and one for the level of detail. Click the Tab sheet you desire. The 'Items' Tab sheet can be used to print both the route information, for one or more routes, and the Map. When printing route information, you may select the routes you wish to print: i.e. one or a combination of optimal and alternative routes.

The 'Level of detail' Tab sheet can be used to set the level of detail printed. Closing the Tab sheet with 'OK' saves the settings of both Tab sheets.

Once you have closed the Tab sheets with 'OK', the Print dialogue window will appear.




## Mail

The route information or map, or both, can be mailed immediately by simply selecting the command 'Mail' in the File menu, or by clicking the Mail icon . The dialogue window which then appears can be used for both mailing and printing (see [Printing](#) for a complete description of how this dialogue window works). Instead of 'print', enter 'mail' in this dialogue window to mail the desired information. The text of the route descriptions is mailed exactly as you see it on your screen. Maps however, are mailed as separate .bmp files.

Once you have closed the Tab sheets with 'OK', the dialogue window of Microsoft Mail or another mail software package will appear.

Note: 'Mail' works only if you run Windows 95 or Windows NT and if you possess a mail package. If you do not possess a mail package, 'Mail' will not appear in the File menu as a menu command and the Mail icon will be displayed in grey.

## Preferences

Many of the settings of AND Route '97 can be changed to meet your individual requirements. Settings can be changed by selecting the command Preferences in the File menu, or by clicking the Preferences icon  in the Files work bar.

This relates to the following:

*the level of Map detail:* Click the Tab sheet 'Map level of detail'. You can select any of five levels of detail. If you select 'Automatic', the application will automatically select the level of detail which best corresponds to the scale selected.

*the colours of the Map:* Click the Tab sheet 'Map colours' to change the colours in which land, cities and water are presented. Click 'Change' to select a new colour. 'Back' can be clicked at any time to undo your selection.

*the print font:* Click the Tab sheet 'Print font' and select the font and font size desired. The selected settings will be used when printing route information.

*Road colours:* Click the Tab sheet 'Road colours' to adapt the colour and width of the different kind of roads and calculated routes.

First select the road or route which you want to change by clicking the corresponding button. On clicking 'Change colour', a colour dialogue window will appear in which you can select an alternative. After clicking on 'Change width', you can enter a new width in the adjacent input box. You can undo your choices by clicking 'Back'.

Closing a Tab sheet with 'OK' will save the settings for *all* Tab sheets.

## The Menu bar

The menus on the Menu bar contain all of the functions of AND Route '97. The following section contains a brief description of all of these functions.

File...menu

Edit...menu

Route...menu


Map...menu

Route overview...menu

Window...menu

File...menu

## File...menu

*Open or* 


Opens a road network file and places it in the File library.

*Print or* 

Opens a dialogue window with two Tab sheets which can be used to select your preferences for print and mail settings. Once the Tab sheets have been closed with 'OK', the Print dialogue window will appear (see [Printing](#) for additional information).

*Print example*

Opens a dialogue window with two Tab sheets which can be used to select your preferences for print and mail settings. Once the Tab sheets have been closed with 'OK', the print example with the selected settings will appear on your screen.

*Mail or* 

Opens a dialogue window with two Tab sheets which can be used to select your preferences for print and mail settings. Once the Tab sheets have been closed with 'OK', the dialogue window of your mail software will appear (see [Mail](#) for additional information).

*Preferences or* 

Opens a dialogue window with four Tab sheets which can be used to change a number of the settings used by AND Route '97: the level of detail , road colours, map colours, and the font size used when printing (see [Preferences](#) for additional information).

*File list*

AND Route maintains a list of the files you opened most recently to a maximum of eight, allowing you to easily open the files you (probably) use most frequently.

*Close*

Closes AND Route '97.

## Edit...menu

### *Cut selected text*

Cuts text from the selected Input field.

### *Copy Map/Route description/Selected text*

Copies the Map, the Route description or the selected text to the Clipboard. The Main window element active at the moment this command is invoked (Map, Route overview or Input field) determines what is copied.


### *Paste text*

Pastes text from the Clipboard into the selected Input field. Whether or not the pasted text can actually be used in AND Route '97 depends on whether or not the location actually appears in the list of locations.


### *Find locations... or*

Opens the Find locations dialogue window. This window is used if you wish to see only specific locations, e.g. only railway stations. See also Selecting from a list containing specific types of locations.

## Route...menu

*Calculate route or* 


Calculates the optimal route, based on your selected departure and arrival points.

*<Selected location> as departure or* 

Makes the selected location the departure point for route calculation.


*<Selected location> as arrival or* 

Makes the selected location the arrival point for route calculation.


*Selecting Via's along the route or* 

Shows a dialogue window in which you can enter locations you want to visit on your journey. The program calculates the optimal route (with possible alternative routes), from the departure to the arrival point including these via's along the route.

## Map...menu

*Zoom in or* 


Zooms in on the centre of the Map. You can zoom in several times.

*Zoom out or* 

Zooms out from the centre of the Map. You can zoom out until the entire Map becomes visible.

*Entire map or* 

Places the entire Map in the Main window with a single command.

*Zoom to the route or* 

Places the entire route in the Main window with a single command.

## Route overview...menu

### *Unfold to level 1*

Displays the route information contained in the first (least detailed) level.

### *Unfold to level 2*

Displays the route information contained in the first and second (more detailed) levels.

### *Unfold to level 3*

Displays the route information contained in the first, second and third (relatively detailed) levels.

### *Unfold to level 4*

Displays the route information contained in the first, second, third and fourth (most detailed) levels.

### *Unfold section*

Displays more detailed route information for the section selected, i.e. the line selected in the Route overview at the moment this command is invoked.

### *Fold section*

Displays the standard route information for the section selected, i.e. the information which is normally displayed in the Route overview after calculation of the optimal route.

### *Cumulative description or*


Provides a cumulative description of the route information displayed.

### *Non-cumulative description or*

Provides a non-cumulative description of the route information displayed.



## Window...menu

*Standard window layout or *

Returns the Main window to the standard layout.

The remaining commands in this menu enable you to reveal or conceal certain elements of the Main window by simply clicking the element you wish to reveal or conceal. A check mark next to the element in the menu tells you whether the element is visible or invisible.

The following elements can be revealed or concealed:

*Route work bar*

*Route overview*

*File library*

*Map work bar*

*Overview work bar*

*Legends*

*Files work bar*

*Auxiliary work bar*

## Help...menu

### *Contents or*

Gives you access to the AND Route '97 Help file. The command Contents provides you with a section-by-section overview of the topics available in the Help file.

### *Search*

Provides an alphabetical list of all of the topics available in the Help file.

### *Using Help*

Provides a general introduction to the use of the Help file.

### *About AND Route '97*

Provides information on the version number of AND Route for Windows, information on copyrights, and information on your computer.

## **Methodology used to calculate route information**

Calculation of route information is based on road networks, which are a combination of road segments. AND Route '97 contains information on the type of road making up each road segment, e.g. motorway, as well as information on the average speed of traffic travelling on these segments. Each type of road is also associated with a given priority based on the desirability of travelling on the type of road involved. When determining the quickest route, the application takes the priority associated with the various roads into account, as well as the average speeds of the various types of roads. The speeds and priorities associated with the various roads cannot be changed.

## **Help desk**

The UK Help desk is available between 9.00 AM and 17.00 PM, Monday to Friday on 01865 244100.

It can also be reached at the following fax number: 01865 200877, or by e-mail on [help@andtech.co.uk](mailto:help@andtech.co.uk)

In the event of problems with the use of AND Route, please ensure you have mailed your registration card, and that you can provide the following information:

- The problem you have experienced
- Your computer's brand name and type
- The type of monitor (video card) you are using
- The amount of free working memory (this can be checked with the help of 'About AND Route '97' in the Help menu)
- The Windows version you are using

## **Network licences and commercial licences**

Please contact AND Electronic Publishing, Oxford, UK, tel. 01865 200800, for network licences and commercial licences. Note: Support requests *cannot* be handled at this number!

Network licences and commercial licences can also be ordered via the fax number mentioned above.

## **AND Electronic Publishing**

AND Electronic Publishing is the sales and marketing operation of AND International Publishers plc.

AND was established in Rotterdam in 1984 and has since then grown into an internationally active software company with offices in England (AND Technology Ltd), the United States (AND Software Inc.), Hungary (AND Software Kft.), Germany (AND Software GmbH), Spain and the Netherlands (AND Mapping B.V., AND Identification B.V., AND Plangroep B.V., AND Operations Research B.V. and AND Publishers B.V.).

Other AND titles available in the United Kingdom include:

AND Route '97 Europe

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